

Date: Tuesday, 4/25/2006 8:42:10 AM
 User: Kim Johnston

Process Sheet

Customer : CU-DAR001 Dart Helicopters Services	Drawing Name : JACK SADDLE
Job Number : 26814	
Estimate Number : 11177	
P.O. Number : N/A	Part Number : D2281
This Issue : 4/25/2006 S.O. No. : N/A	Drawing Number : D2281 REV G
Prsht Rev. : NC	Project Number : N/A
First Issue : N/A Type : SMALL /MED FAB	Drawing Revision : G
Previous Run : 25132	Material : N/A
Written By : <u>See Comment Below</u>	Due Date : 5/20/2006
Checked & Approved By : <u>06.04.25</u>	Qty: 100 Um: Each
Comment : Est Rev:A Removed from 9 Digit 05-12-02 JLM	

Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :
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1.0	PG	PURCHASING
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**Comment:** PURCHASINGIssue P/O: 1090 Email or Ship Dxf file to vendor

Laser cut as per Dwg D2281

Material release note required.

06/04/25(100)

2.0	D2281F	Jack Saddle
-----	--------	-------------



Comment: Qty.: 1.0000 Each(s)/Unit Total : 100.0000 Each(s)
 Jack Saddle

3.0	PACKAGING 1	PACKAGING RESOURCE #1
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**Comment:** PACKAGING RESOURCE #1

Receive & Inspect For Transit Damage

Ensure material certification is attached

06/05/19 98

4.0	QC6	DIMENSIONAL CHECK
-----	-----	-------------------

**Comment:** DIMENSIONAL CHECK06/05-10
count of 99

5.0	SMALL FAB 1	SMALL & MEDIUM FAB RESOURCE 1
-----	-------------	-------------------------------

**Comment:** DeburrH-M 06/05/19 (99)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes ☐ No ☒ DQA: PP Date: 06/06/07
 QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Date: Tuesday, 4/25/2006 8:42:10 AM
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Process Sheet

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: JACK SADDLE

Job Number: 26814

Part Number: D2281

Job Number:



Seq. #:

Machine Or Operation:

Description :

6.0

BRAKE NC

NC BRAKE



Comment: NC BRAKE

Form as per D2281 using D2281-T2

SB 06/06/05 99

7.0

QC5

INSPECT WORK TO CURRENT STEP



Comment: INSPECT WORK TO CURRENT STEP

06.06.05 55

8.0

PACKAGING 1

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: WS21

CPL 06.06.06

9.0

DC

DOCUMENT CONTROL



Comment: DOCUMENT CONTROL

Inspection Level 21

SP 06/06/07 99

Job Completion



21 00.06.07

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

QA: N/C Closed: _____ Date: _____

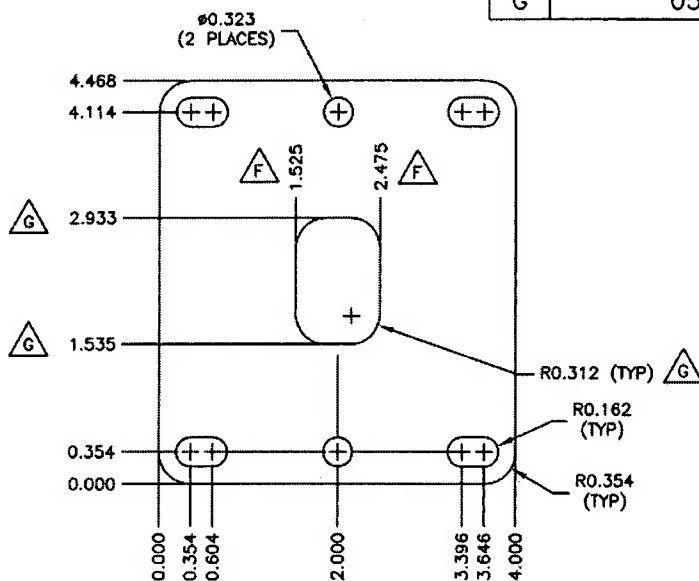
NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

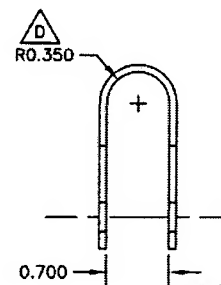
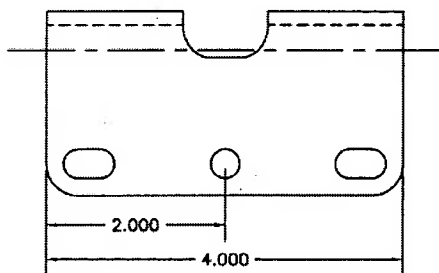


DESIGN BW	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. D2281	REV. G SHEET 1 OF 1
DATE 05.06.07		TITLE JACK SADDLE	SCALE 1:2
A	94.10.14	NEW ISSUE	
B	94.10.18	DIMENSION WAS 2.878	
C	94.11.04	ADD TOOLING NOTCH	
D	98.03.27	R0.350 WAS R0.280	
E	04.11.18	REMOVE TOOLING NOTCHES	
F	05.03.16	REDESIGN FLAT PATTERN	
G	05.06.07	REDESIGN FLAT PATTERN	

RELEASED
[Signature]
05/08/11



FLAT LAYOUT



SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 26814

D2281 JACK SADDLE

- 1) MATERIAL: 304/316 SS, 0.080 THICK (REF DART SPEC. M304S14GA)
- 2) FINISH: NONE
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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Paragraph 4.3 by TÜV Anlagentechnik GmbH (Notified Body)
Inspection Certificate EN10204-3.1B

P60124PC001

Shanxi Taiyuan Stainless Steel CO., LTD Member
of Taiyuan Iron and Steel (Group) Co., LTD.
NO.2 Jiancaoping, Taiyuan, Shanxi, P.R.China
TEL: (0351)3013328 FAX: (0351)3017816
http://www.tisco.com.cn
E_mail: tgbxg@tisco.com.cn

MILL TEST CERTIFICATE

MATERIAL: AISI304 No.2B Finish
SPECIFICATION: ASTM A240/A480 ASME SA240/SA480
L/C NO.:
CERTIFICATE NO.: 20051187
DATE OF ISSUE: //

CUSTOMER
OLBERT

CONTRACT NO.
1187

DATA OF
2005/11/20

Product: Melting furnace

Inspector's stamp

Mark of the Manufacturer

COIL

E+VOD



Shanxi Taiyuan Stainless Steel Co., Ltd

NO.	Heat No.	Coil No.	Quantity	Dimensions	Weight (kg)
8.	4505286	5A9-495-1ZD	1	11GA x 48 x C	7009
9	Y506019	5A9-485-1ZB	1	11GA x 48 x C	6679
10	4505044	5A9-456-1ZY	1	14GA x 48 x C	5461
11	4505274	5A9-450-1ZD	1	11GA x 48 x C	4832
12	4505271	5A10-44-3ZJ	1	16GA x 48 x C	8906
13	4505050	5A10-53-3ZJ	1	16GA x 48 x C	8617
14	4505393	5A10-70-4ZY	1	14GA x 48 x C	8642

Chemical Composition

Heat No.	C	Si	Mn	P	S	Cr	Ni	Cu	Al	Mo	N
4505286	0.080	0.470	1.400	0.017	0.003	18.170	8.020	0.010	0.010	0.010	0.035
Y506019	0.050	0.350	0.990	0.032	0.004	18.300	8.090	0.440	0.006	0.120	0.070
4505044	0.060	0.450	1.370	0.018	0.002	18.200	8.120	0.010	0.010	0.010	0.050
4505274	0.060	0.520	1.320	0.017	0.002	18.150	8.120	0.010	0.010	0.010	0.045
4505271	0.060	0.470	1.320	0.016	0.003	18.170	8.110	0.010	0.010	0.010	0.045
4505050	0.060	0.480	1.290	0.014	0.002	18.220	8.040	0.010	0.010	0.010	0.045
4505393	0.070	0.480	1.260	0.017	0.002	18.200	8.070	0.010	0.010	0.010	0.040

Mechanical Properties

Test No.	Tensile R _m N/mm ²	R _{p0.2} Yield _{0.2%} N/mm ²	R _{p1.0} Yield _{1%} N/mm ²	Elongation A5%	Corrosion Tests	Hardness		
						HRB	HV	HRC
4505286-T	635	282		53		84 - 83		
Y506019-T	650	266		53		88		
4505044-T	675	307		59		83 - 83		
4505274-T	690	299		56		86 - 85		
4505271-T	700	326		54			188 - 186	
4505050-T	695	297		57			190 - 188	
4505393-T	680			60		86 - 85		

Surface and dimensions controlled:

Work Inspector: [Signature]



P60124PC001V 3042B .062X48 HT 4505271 4505050



New Zealand Steel Limited
Glenbrook, 50/52 Auckland
Postal: Private Bag 92121, Auckland, New Zealand
Telephone: (09) 375 8999 / 375 8111 Auckland
(09) 335 6389 / 225 3636 Waiuku
Fax: (09) 375 8999

TEST CERTIFICATE

Ref: 5512/2006

NEW ZEALAND
STEEL

FAX (03) 375 8900

CUSTOMER		Wilkinson	SPECIFICATION														ASTM A1011 CS Type B		CERTIFICATE No		TC124648			
CUSTOMER O/N		90-JIN-108	PRODUCT														HOT ROLLED PICKLED & OILED		PAGE		1 of 1			
MILL O/N		518491	DIMENSIONS														0.104" x 48" x Coil		DATE		17 January 2006			
			CHEMICAL COMPOSITION PERCENT														MECHANICAL TESTS (TEST SPECIFICATION)							
PACK NUMBER	(Sample) HEAT No	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	Al	B	N	CE ()	BEND	YIELD	T.S.	WELONG	THICKNESS	r	LENGTH
		x100			x1000											x10000		x100		180°				
HP-997711-00	646664	6	1	20	9	19												Good						942
HP-997712-00	646664	6	1	20	9	19												Good						961
HP-997713-00	646846	5	TR	20	11	19												Good						955
HP-997714-00	646846	5	TR	20	11	19												Good						955
HP-997715-00	646664	6	1	20	9	19												Good						955
HP-997716-00	646664	6	1	20	9	19												Good						958
HP-997717-00	646846	5	TR	20	11	19												Good						958
HP-997718-00	646846	5	TR	20	11	19												Good						958
HP-997719-00	646846	5	TR	20	11	19												Good						958
HP-997720-00	646846	5	TR	20	11	19												Good						958
HP-997721-00	646846	5	TR	20	11	19												Good						958
HP-997722-00	646846	5	TR	20	11	19												Good						958

YIELD (A)=0.2% PROOF STRESS (D)=LOWER YIELD STRESS	GAUGE LENGTH (GL)		PLASTIC STRAIN RATIO (R)	IMPACT TEST		CARBON EQUIVALENT VALUE (CE)	(C)=C+Mn/6+Si/24 (D)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15
	(A)=200mm (D)=50mm	(C)=80mm (F)=5"		(A)=0 (B)=0.03	(C)=0.5 (D)=(0.008+0.01245)/4		
				(A)=5mm x 5mm (B)=2.5mm x 10mm (C)=5mm x 10mm			

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED
WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED *Sanish Misra*
QC METALLURIST

550418ND011-2 T W INDUSTRIAL (551122ME003.546846)

